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REFERENCES TO PUBLISHED REPORTS

of

RESEARCH IN HOME ECONOMICS

Receiving Federal Support

at the

AGRICULTURAL EXPERIMENT STATIONS

1930-1931

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EXPLANATORY NOTE

This list of literature references to the published reports from November 1, 1930, to November 1, 1931, on home economics research projects receiving Federal support at the State agricultural experiment stations includes (1) progress reports in the annual or biennial reports of the experiment station directors, (2) experiment station bulletins and circulars, and (3) journal articles. To conserve space the references to progress reports, most of which summarize progress on all active projects, are given without titles and authors. No attempt has been made to list published reports of home economics research not receiving Federal support.

ARIZONA

The cause of mottled enamel, a defect of human teeth, M. C. Smith, E. M. Lantz, and H. V. Smith (Arizona Sta. Tech. Bul. 32 (1931), pp. 253-282).

The cause of mottled enamel, M. C. Smith, E. M. Lantz, and H. V. Smith (Science, 74 (1931), p. 244).

The value of alfalfa as a source of vitamin A in sorghum grain rations, M. C. Smith and M. L. Lynott (Jour. Agr. Research, 42 (1931), pp. 421-432).

The feeding value of the grain sorghums hegari and yellow milo compared with yellow corn, M. C. Smith (Timely Hints for Farmers, No. 161 (1930), pp. 9).

The vitamin content of three varieties of dates, M. C. Smith and L. A. Meeker (Arizona Sta. Tech. Bul. 34 (1931), in press).

ARKANSAS

Progress report in Arkansas Sta. Bul. 257 (1930), pp. 57, 58.

Carbohydrate metabolism in avitaminosis.--III, Vitamin A deficiency on concentration of sugar, alkaline reserve, and glycogen content of the liver. IV, Vitamin D deficiency on concentration of sugar, alkaline reserve, and glycogen content of liver. V, Vitamin G deficiency on concentration of sugar, alkaline reserve, and glycogen content of the liver, B. Sure and M. E. Smith (Proc. Soc. Expt. Biol. and Med., 28 (1931), pp. 439-442).

Hematopoietic function in avitaminosis.--VI, Vitamin G deficiency, B. Sure, M. C. Kik, and M. E. Smith (Proc. Soc. Expt. Biol. and Med., 28 (1931), pp. 498, 499).

A differentiation of the so-called antipellagric factor, vitamin G, B. Sure, M. E. Smith, and M. C. Kik (Science, 73 (1931), pp. 242, 243).

The specific effect of vitamin B on lactation, growth, and water metabolism, B. Sure, M. C. Kik, M. E. Smith, and D. J. Walker (Science, 73 (1931), p. 285).

Avitaminosis.--III, Specific effect of vitamin B on growth and lipid metabolism: Lipemia as a symptom complex in this avitaminosis, B. Sure and M. E. Smith (Jour. Amer. Med. Assoc., 97 (1931), pp. 301, 302).

CALIFORNIA

Effect of drying and sulfuring on the vitamin C content of prunes and apricots, A. F. Morgan, A. Field, and P. F. Nichols (Jour. Agr. Research, 42 (1931), pp. 35-45).

COLORADO

Progress report in Colorado Sta. Rpt. 1930, p. 33.

Baking flour mixtures at high altitudes, M. W. Peterson (Colorado Sta. Bul. 365 (1930), pp. 180).

Baking quick breads and cakes at high altitudes: A guide to housewives, M. W. Peterson (Colorado Sta. Bul. 366 (1930), pp. 48).

CONNECTICUT

Progress report in Connecticut Storrs Sta. Bul. 171 (1931), p. 25.

FLORIDA

Progress report in Florida Sta. Rpt. 1930, pp. 74, 75.

GEORGIA

Progress report in Georgia Sta. Rpt. 1930, pp. 36, 37.

Vitamin content of turnip greens, collards, cantaloupes, and peaches, C. L. Newton (Georgia Sta. Bul. 167 (1931), pp. 20).

A colorimetric iron method for biological materials, L. Ascham (Jour. Home Econ., 23 (1931), pp. 776-778).

HAWAII

Progress report in Hawaii Sta. Rpt. 1930, pp. 19-24.

IDAHO

Progress reports in Idaho Sta. Buls. 170 (1930), p. 22; 179 (1931), pp. 30-32.

ILLINOIS

Progress reports in Illinois Sta. Rpts. 1929-30, pp. 264-274; 1930-31, pp. 271-282.

Vitamin-B and vitamin-G content of cereals, R. A. Hetler, C. R. Meyer, and D. Husseman (Illinois Sta. Bul. 369 (1931), pp. 165-211).

Living expenditures of a selected group of Illinois farm and small town families, M. A. Souder and R. C. Freeman (Illinois Sta. Bul. 372 (1931), pp. 331-351).

The vitamin B and G requirements of lactation, D. L. Husseman and R. A. Hetler (Jour. Nutrition, 4 (1931), pp. 127-140).

The vitamin A content of oats, C. R. Meyer and R. A. Hetler (Jour. Agr. Research, 42 (1931), pp. 501-506).

INDIANA

Progress report in Indiana Sta. Rpt. 1930, pp. 51-53.

IOWA

Progress reports in Iowa Sta. Rpts. 1929, pp. 66-69; 1930, pp. 59-63.

Influence of the animal's age upon the quality and palatability of beef.--II, The roast beef, preparation, quality, and palatability, P. M. Nelson, B. Lowe, and M. D. Helser (Iowa Sta. Bul. 272 (1930), pp. 311-322).

Value of family living on Iowa farms, E. E. Hoyt, with the assistance of E. C. Morgan (Iowa Sta. Bul. 281 (1931), pp. 189-239).

Meat in nutrition.--I, Preliminary report on beef muscle, P. M. Nelson, M. H. Irwin, and L. J. Peet. II, Some dietary factors influencing lactation, L. J. Peet, P. M. Nelson, and E. A. Smith. III, Hemoglobin formation, L. J. Peet, E. A. Smith, and P. M. Nelson (Jour. Nutrition, 3 (1930), pp. 303-311, 313-323, 325-330).

The cooking of food with heat generated by the resistance of the food to the passage of an alternating electric current, L. E. Sater (Jour. Home Econ., 23 (1931), pp. 1050-1054).

KANSAS

Progress reports in Kansas Sta. Bien. Rpt. 1928-30, pp. 133-137.

Utilization by normal adult subjects of the calcium and phosphorus in raw milk and in ice cream, M. M. Kramer, M. T. Potter, and I. Gillum (Jour. Nutrition, 4 (1931), pp. 105-114).

A comparative study of the protective value of certain fabrics in still and moving air, K. Hess (Melliand Textile Mo., 2 (1931), No. 12).

KENTUCKY

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The effect of vitamin D factors on the hydrogen ion concentration of the white and yolk of hens' eggs and on the percentages of ash, calcium, iron, and inorganic phosphorus in the yolk, S. E. Erikson, R. E. Boyden, W. M. Insko, jr., and J. H. Martin (Abs. in Jour. Home Econ., 23 (1931), p. 975).

LOUISIANA

Home canning of meat under conditions in Louisiana, G. Sunderlin (Louisiana Stas. Bul. 220 (1931), pp. 8).

MAINE

Progress report in Maine Sta. Bul. 357 (1930), p. 234.

The scientific study of the palatability of food, M. D. Sweetman (Jour. Home Econ., 23 (1931), pp. 161-172).

Penetrometer measurements of "doneness" in cooked vegetables, M. D. Sweetman and M. C. Lancaster (Jour. Home Econ., 23 (1931), pp. 565-567).

The relation of storage temperature of potatoes to their culinary quality, M. D. Sweetman (Amer. Potato Jour., 8 (1931), pp. 174-176).

MASSACHUSETTS

Progress report in Massachusetts Sta. Bul. 271 (1930), pp. 265, 266.

MICHIGAN

Progress reports in Michigan Sta. [Bien.] Rpt. 1929-30, pp. 36-38.

The association of vitamin A with greenness in plant tissue.--III, Vitamin A content of asparagus grown under light of various qualities, J. W. Crist and M. Dye (Jour. Biol. Chem., 91 (1931), pp. 127-134).

The heat stability of vitamin B₂ of protein-free milk, at varying concentrations of hydrogen ion, with a discussion of methods of assay of the vitamin, N. Halliday, with the assistance of M. Nunn and J. D. Fisher (Abs. in Jour. Home Econ., 23 (1931), pp. 975, 976).

MINNESOTA

Blood regeneration studies.--I, Changes in the volume, number, and size of the erythrocytes in hemorrhagic anemia, J. M. Leichsenring and H. H. Hönig (Amer. Jour. Physiol., 98 (1931), pp. 636-643).

MISSISSIPPI

Progress reports in Mississippi Sta. Rpts. 1929, pp. 16, 17; 1930, pp. 22-25.

The effect of feeding sorghum and sugarcane sirups on nutritional anemia, O. Sheets and E. Frazier (Jour. Home Econ., 23 (1931), pp. 273-280).

Conservation of iron in vegetables by methods of preparation and cooking, O. Sheets, E. Frazier, and D. Dickins (Mississippi Sta. Bul. 291 (1931), pp. 16).

Food consumption of boys and girls in six typical agricultural high schools of Mississippi, D. Dickins (Mississippi Sta. Bul. 292 (1931), pp. 32; Abs. in Jour. Home Econ., 23 (1931), pp. 976, 977).

Agricultural high school dormitories of Mississippi, D. Dickins (Mississippi Sta. Bul. 293 (1931), pp. 42).

MISSOURI

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How certain methods of cooking affect the quality and palatability of beef, J. A. Cline, E. A. Trowbridge, M. T. Foster, and H. E. Fry (Missouri Sta. Bul. 293 (1930), pp. 40).

A study of the effect of two oven temperatures on the cooking losses and palatability of six cuts from three classes of beef animals, J. A. Cline and M. E. Loughhead (Abs. in Jour. Home Econ., 23 (1931), p. 977).

NEBRASKA

Progress report in Nebraska Sta. Rpt. 1930, pp. 22, 23.

Selection and management of kerosene cook stoves, E. B. Snyder (Nebraska Sta. Circ. 41 (1930), pp. 14).

A study of washing machines, E. B. Snyder and M. P. Brunig (Nebraska Sta. Research Bul. 56 (1931), pp. 44).

The contribution of Nebraska farm women to family income through poultry and dairy products, M. R. Clark (Nebraska Sta. Bul. 258 (1931), pp. 32).

NEW MEXICO

Progress report in New Mexico Sta. Rpt. 1930, pp. 74-78.

NEW YORK (Cornell)

Progress reports in New York (Cornell) Sta. Rpt. 1930, pp. 105-116.

Chylomicron content and total lipids of blood plasma as determined on dogs, E. H. MacArthur (Proc. Soc. Expt. Biol. and Med., 28 (1931), pp. 555-557).

The family finances of 195 farm families in Tompkins County, New York, 1927-28, H. Canon (New York (Cornell) Sta. Bul. 522 (1931), pp. 84).

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Standardizing methods of roasting beef in experimental cookery, E. Latzke (North Dakota Sta. Bul. 242 (1930), pp. 18).

Roast beef: Rare, medium, or well done, E. Latzke (North Dakota Agr. Col. Ent. Circ. 96 (1930), pp. 7).

OHIO

Progress report in Ohio Sta. Bul. 470 (1931), pp. 193-196.

Basal metabolism of young women, H. McKay (Ohio Sta. Bul. 465 (1930), pp. 37).

The influence of laundering and exposure to light upon some washable silks, M. Griffith (Ohio Sta. Bimo. Bul. 147 (1930), pp. 179-181).

The relation of food to the growth of pre-school children, M. A. Brown (Ohio Sta. Bimo. Bul. 149 (1931), pp. 73-76).

A study of certain cash expenditures of Ohio farm families, G. Brinton (Ohio Sta. Bul. 474 (1931), pp. 51).

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OKLAHOMA

Progress reports in Oklahoma Sta. Rpt. 1927-1930, pp. 181-183, 275-279.

The effects of vitamin deficiency upon the coefficients of digestibility of protein, fat, and carbohydrate, R. R. St. Julian and V. G. Heller (Jour. Biol. Chem., 90 (1931), pp. 99-110).

Further observations of the effect of light on the synthesis of vitamins, V. G. Heller and R. St. Julian (Jour. Nutrition, 4 (1931) pp. 227-233).

Some effects of supplementing the diets of underweight adults with vitamin B preparation, C. M. Coons, A. T. Schieffelbusch, and G. B. Marshall (Abs. in Jour. Home Econ., 23 (1931), pp. 978, 979).

Methods used in studying money contributions of farm women to the family income, G. Fernandes (Abs. in Jour. Home Econ., 23 (1931), pp. 957-959).

The basal metabolism of Oklahoma women, C. M. Coons (Amer. Jour. Physiol., 98 (1931), pp. 692-697).

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OREGON

Balting of pears: Standardization of household practice as applied to the baking of Bosc, D'Anjou, and Comice pears, A. Kolshorn (Oregon Sta. Bul. 283 (1931), pp. 20).

RHODE ISLAND

Progress report in Rhode Island Sta. Rpt. 1930, pp. 41, 42.

The relation between mealiness in potatoes and the amount of potash in the fertilizer, B. Neil and M. Whittemore (Amer. Potato Jour., 7 (1930), pp. 275-283).

A study of the frequency of paid work done by the rural Rhode Island homemaker and some of its effects upon herself and her home, B. M. Kuschte (Abs. in Jour. Home Econ., 23 (1931), p. 960).

RHODE ISLAND (cont.)

Certain relationships of potash fertilization and varieties of potatoes to table value, M. Whittmore and B. M. Kuschke (Rhode Island Sta. Bul. 231 (1931), pp. 16).

The wage-earning homemaker and the family income, M. Whittmore (Jour. Home Econ., 23 (1931), pp. 998-1001).

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Progress report in South Carolina Sta. Rpt. 1930, pp. 74-78.

The diet of school children in relation to their health, M. E. Frayser and A. M. Moser (South Carolina Sta. Bul. 268 (1930), pp. 64).

The play and recreation of children and youth in selected rural areas of South Carolina, M. E. Frayser (South Carolina Sta. Bul. 275 (1931), pp. 66).

SOUTH DAKOTA

Progress report in South Dakota Sta. Rpt. 1930, pp. 18-21.

The vitamin C content of fresh and canned spinach, Swiss chard, asparagus, and carrots, G. E. Wasson (South Dakota Sta. Bul. 261 (1931), pp. 28).

TENNESSEE

Progress reports in Tennessee Sta. Rpts. 1929, p. 30; 1930, pp. 28-30.

TEXAS

Progress report in Texas Sta. Rpt. 1930, pp. 84-86.

Some factors affecting accuracy in the collection of data on the growth in weight of school children, E. E. Sumner and J. Whitacre (Jour. Nutrition, 4 (1931), pp. 15-23).

UTAH

Soft-curd milk, R. L. Hill (Utah Sta. Bul. 227 (1931), pp. 24).

Diet as an index to living level in some Utah farm homes, A. P. Brown (Proc. Utah Acad. Sci., 8 (1931), pp. 11-114).

VERMONT

Food consumption of fifty Vermont farm households, M. Muse and I. Gillum (Vermont Sta. Bul. 327 (1931), pp. 30).

Methods used in studying the cash contributions of farm homemakers to the family income, M. Muse (Abs. in Jour. Home Econ., 23 (1931), pp. 959, 960).

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Baking vegetables electrically, VeN. W. Swartz (Washington Col. Sta. Bul. 251 (1931), pp. 20).

Standards for cooking vegetables in the electric oven, VeN. W. Swartz (Washington Col. Sta. typewritten publication (1931), pp. 111).

Thermal efficiency of surface units in electric ranges, VeN. W. Swartz (Jour. Home Econ., 23 (1931), pp. 459-464).

Speed and efficiency of oven utensils, B. Cornehl and VeN. W. Swartz (Jour. Home Econ., 23 (1931), pp. 464-467).

Fuel economy of triplicate pans, VeN. W. Swartz and G. Jones (Jour. Home Econ., 23 (1931), pp. 467-470).

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The physiological effects of diets rich in egg white, H. T. Parsons (Jour. Biol. Chem., 90 (1931), pp. 351-367).

WYOMING

Progress report in Wyoming Sta. Rpt. 1929-30, pp. 25, 26.

Vegetable cookery at high altitudes, E. J. Thiessen (Wyoming Sta. Bul. 180 (1931), pp. 32).

